

List of Current Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-8 (canceled).

9. (new): A sonic- or ultrasonic flowmeter, comprising:

a pipe segment connect to a first pipe and to a second pipe, each having a diameter, which complies with an industry standard for pipe diameters used in differential pressure flow measurement, a length, which is equal to a standard length for a flow restricting element of a differential pressure flowmeter, and a diameter, which is equal to a standard for pipe diameters used in differential pressure flow measurement;

a first standard connector located on a first end of said pipe segment and a second standard connector located on a second end of said pipe segment;

a primary flow sensor, comprising at least one sonic- or ultrasonic transducer for transmission and/or reception of sonic- or ultrasonic signals through said pipe segment, mounted on said pipe segment; and

sensor electronics for providing the measurement signal representing a flow of a fluid through said pipe segment, based on signals received by said sonic- or ultrasonic transducers.

10. (new): The sonic- or ultrasonic flowmeter according to claim 9, wherein:

said first standard connector and said second standard connector are flanges or pipe sections, which are to be welded onto ends of the first pipe and the second pipe.

11. (new): The sonic- or ultrasonic flowmeter according to claim 9, wherein:

said sonic- or ultrasonic transducers are inserted in opposing bores in said pipe segment.

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12. (new): The sonic- or ultrasonic flowmeter according to claim 9, wherein:

said sonic- or ultrasonic transducers are mounted on opposing outside walls of said pipe segment.

13. (new): The sonic- or ultrasonic flowmeter according to claim 9, further comprising:

a housing for said sensor electronics, which is mounted on said pipe segment.

14. (new): The sonic- or ultrasonic flowmeter according to claim 9, further comprising:

a housing for said sensor electronics;

a mounting section located on an outside wall of said housing for mounting said housing apart from said pipe segment; and

a cable connector located on an outside wall of said housing, for connecting said sonic- or ultrasonic transducers to said sensor electronics.

15. (new): The sonic- or ultrasonic flowmeter according to claim 9, further comprising:

a housing for sensor electronics; and

a mounting section located on an outside wall of said housing for mounting said housing apart from said pipe segment, said mounting section comprising two pairs of threaded bores, wherein:

said threaded bores form a rectangle and their position is equal to a position of threaded bores in a normed oval flanges of differential pressure transducers.

16. (new): The sonic- or ultrasonic flowmeter according to claim 15, wherein:

a cable connector for connecting said sonic- or ultrasonic transducer is located between said threaded bores of each pair of threaded bores.